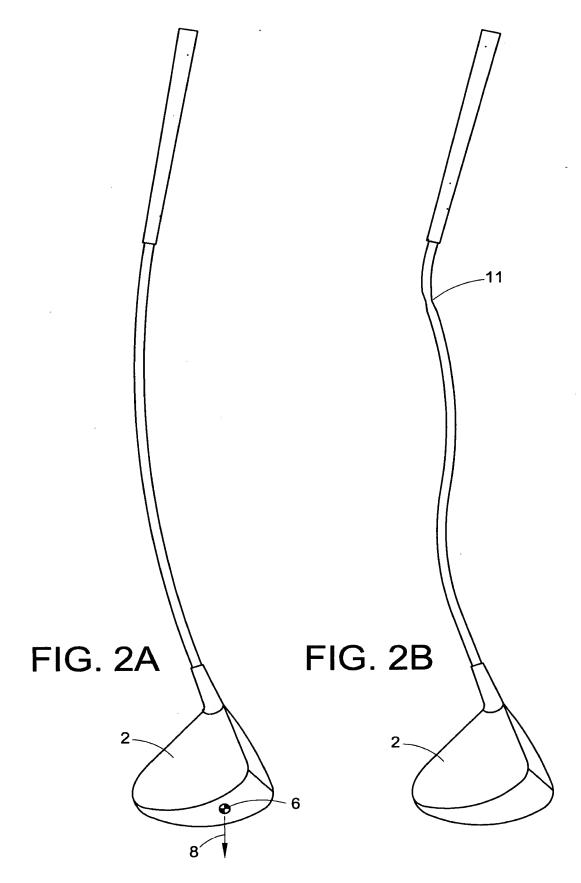
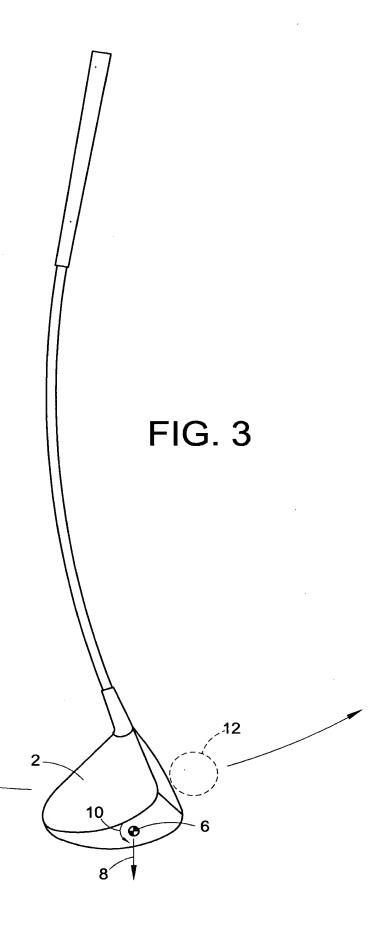


FIG. 1









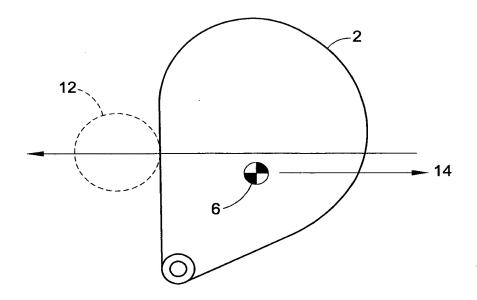


FIG. 4A

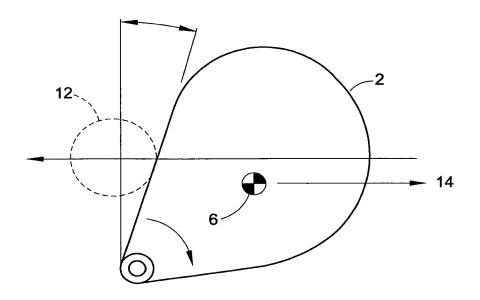
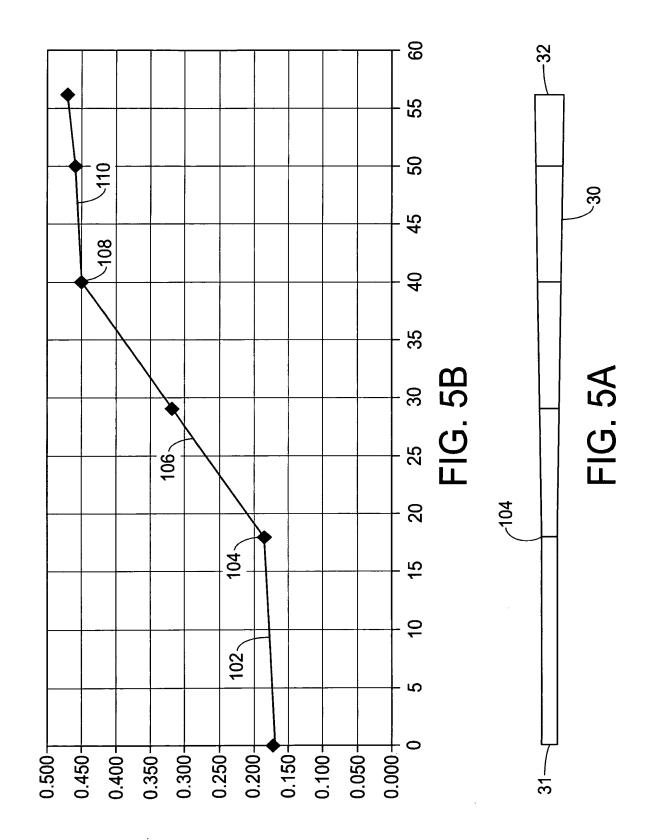


FIG. 4B





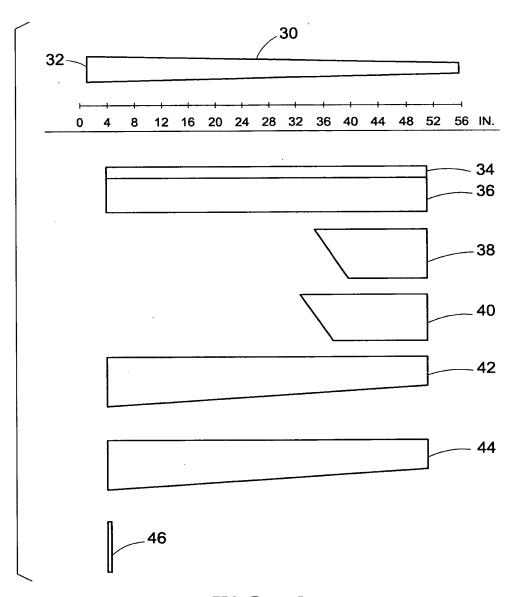
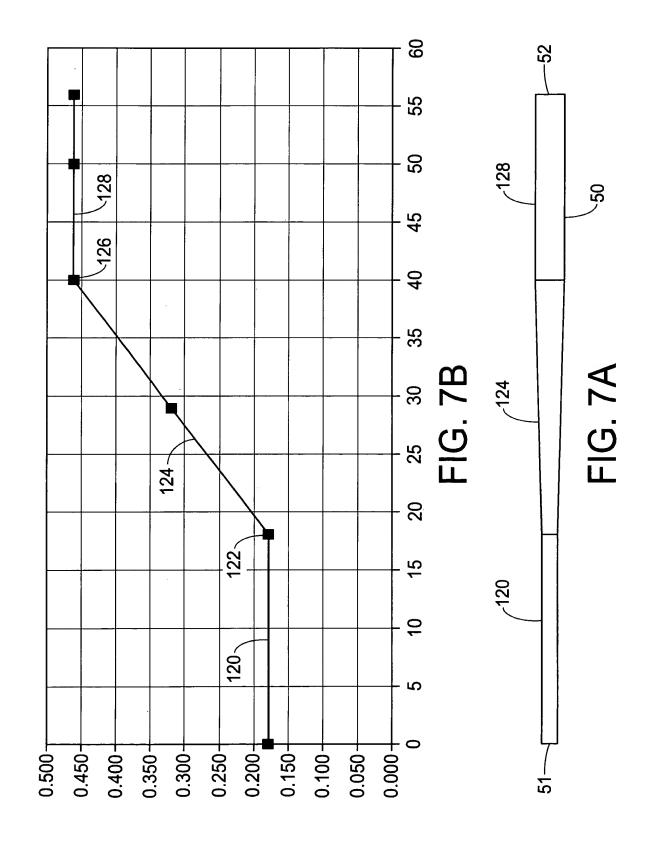


FIG. 6







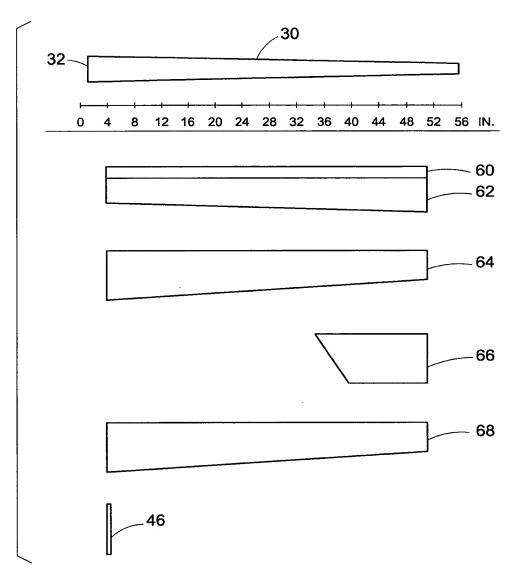
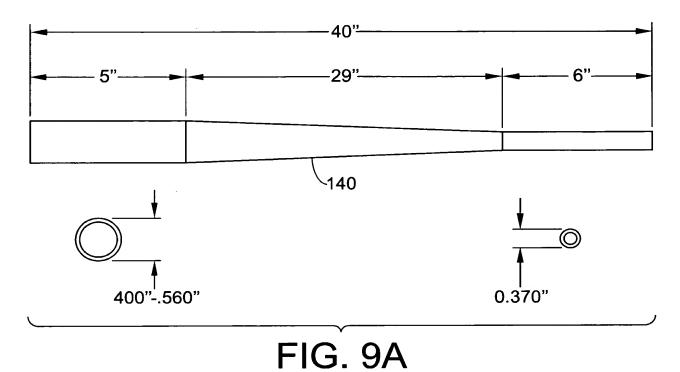


FIG. 8





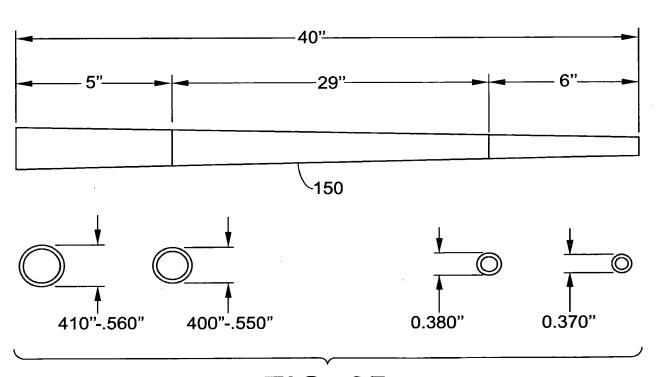
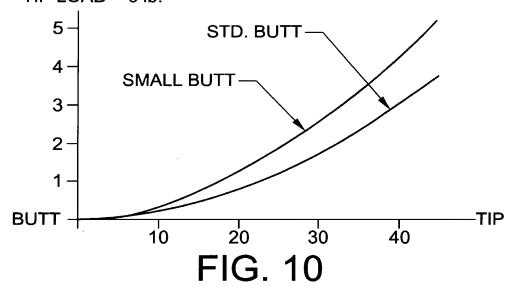


FIG. 9B



CANILEVER BEAM CASE 1:

LENGTH = 45" OD/STD. = .620" OD/SMALL = .540" TIP LOAD = 6 lb.



SIMPLY SUPPORTED BEAM

CASE 1:

LENGTH = 45"

OD/STD. = .620"

OD/SMALL = .540"

MOMENT, @BUTT = 1 ft. lb.

